CEC-NRCA-LTI-03-A (Revised 01/19)

T CALIFORNIA ENER	RGY COMMISSION	
	NRCA-LTI-03-A	
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	Permit Number:	
	Zip Code:	

CERTIFICATE OF ACCEPTANCE NRCA-LTI-			NRCA-LTI-03-A		
Automatic Daylighting Control Acceptance Document (Pa		(Page 1 of 6)			
Project	Name:		Enforcer	ment Agency:	Permit Number:
Project	Address:		City:		Zip Code:
Comi	aliance	Results:		Enforcement Agency Use: Checked by/Date	
		or DOES NOT COMPLY]		Emortement Agency Ose. Checked by/Date	
[00.	2.23				
Inter				acceptance requirements in §130.4(a)3 and Referentach additional sets of pages 2 through 5, as require	
		must be tested.	013. 710	adir duditional sets of pages 2 tillough 3, as require	ed, for all controls that
		control methods used for this project:		was and all a state of the stat	
		inuous dimming controls (Sections A and B-1 of the			
	Step	ped switching / stepped dimming controls (Section	ns A an		
A. Co	nstruc	tion Inspection (NA7.6.1.1)		*	
		<u> </u>	daylit z	cones, or the general lighting in the combined prima	ary and secondary
	a.	sidelit daylit zones in parking garages, is control	led by	automatic daylighting controls. (§130.1(d))	,
	L	The daylit zones are shown on page(s)	of	plans;	
	b.	The daylit zones are drawn in on page(s)	C	of as-built plans (attached). (§130.1(d)1)	
	C.	The automatic daylighting controls provide sepa	arate co	ontrol for luminaires in each type of daylit zone. Lui	minaires that fall in
		both a skylit and primary sidelit daylit zone are			h
	d.	For photosensors located within a daylit zone, at least one photosensor is not readily accessible to unauthorized personnel. (§130.1(d)4)			
	e.	The location where calibration adjustments are made to the automatic daylighting controls is readily accessible to authorized			
Cons	tructio	personnel, including inside a locked case or und	er a co	t Comply	
Construction Inspection Compliance: Complies Does Not Comply					
Ge. For photosensors located within a daylit zone, at least one photosensor is not readily accessible to unauthorized personnel. (\$130.1(d)4) The location where calibration adjustments are made to the automatic daylighting controls is readily accessible to authorized personnel, including inside a locked case or under a cover that requires a tool for access. (\$130.1(d)5) Construction Inspection Compliance: O Complies Does Not Comply					

AUTOMATIC DAYLIGHTING CONTROL ACCEPTANCE DOCUMENT

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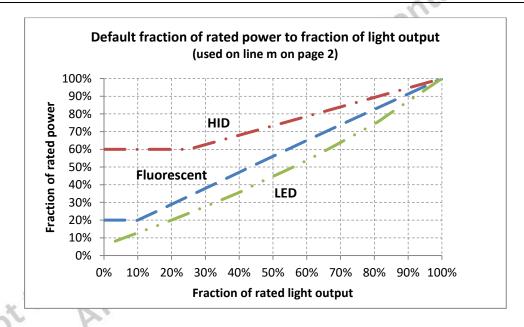
Zip Code:

B-1. Continuous Dimming Control Systems Functional Testing (NA7.6.1.2.1)						
Building		Floor:	resting (NA7.0	Room:	Control:	
Dullulle	·	11001.		Noom.	Control	
				chod is used, attach a page listin		•
				ion in the controlled zone). (NA		
illum			_	ondary sidelit zone away from the		80.1(d)3D)
a.				ratio of power to light (Dfc), cut plied by Volts (VA), or measure		
Step	2: No daylight test. Simulate					
				hout daylight: night time manua	al measurement (Night)	
b.	night time illuminance loggi	ing (Log), cover fenes	tration (CF), or	cover photosensor (CP).		
c.	Enter the reference illumina is the electric lighting illumi			asured at the reference location	n. (<u>NA7.6.1.2.1(d)2</u>) This	
d.				estimation method (line a) = VA ver estimation method (line a) =		
e.	Automatic daylight control	system provides appr	opriate contro	so that the electric lighting sys	tem is providing full light	
f.	Light output is stable with n			(. <u>1.2.1(d)1)</u> Enter yes (Y) or no (I))	N).	
				the daylight illuminance is great	ter than 150% of the refer	ence
-	inance measured in Step 2. (NA7.6.1.2.1(e), §130.:	1(d)3C, §130.1(<u>d)3D)</u>	,	
g.	Enter the daylight illuminan reference location.	ice (light level with th	e electric lighti	ng turned off) value in footcand	lles (fc) measured at the	
h.	Calculate the ratio of daylig	ht illuminance to the	reference illum	ninance in %. ([line g / line c] x 1	00)	
	The ratio of daylight illumin	ance to the reference	e illuminance (l	ine h) is greater than 150%. (§13	30.1(d)3C, §130.1(d)3D)	
i.	Enter yes (Y) or no (N).		3 6		· · · · · · · · · · · · · · · · · · ·	
	Enter the total illuminance	(combined daylight a	nd electric light	: illuminance) in footcandles (fc)	measured at the	
j.	reference location if power	estimation method (line a) = Dfc or	CSfc. <i>OR</i> Enter the measured po	ower in Volt-Amps (VA) if	
				estimation method (line a) = W		
k.		A Shally To		he reference location if power		
				if power estimation method (lin		
I.		M A 1 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M	0. 0. 0	tion method (line a) = Dfc or CS	fc. ([line k / line c] x 100)	
	OR Indicate not applicable (
	0.00	A. W		rer estimation method (line a) =		
m.				t or the default graph on page 3	B. OR Indicate not	
	applicable (N/A) if power es		ie a) = VA or W			
	Calculate the system power					
		d (line a) = Dtc or CStc	, system powe	r reduction = [1 - dimmed lumin	aire fraction of rated	
n.	power (line m)]. OR	-1 /1: \		dusting [4]	/II:	
		tine a) = VA or W, s	ystem power re	eduction = [1 - measured power	(line J)/full load power	
	(line d)].		liabeira a acces	and distance of controlled livesing	ines (line a) is at least	
_	•			reduction of controlled lumina	•	
0.	(§130.1(d)3D) Enter yes (Y)		ing garages, the	e controlled lighting power cons	sumption is zero.	
n			cker (NA7.6.1.)	2.1(e)1) Enter yes (Y) or no (N).		
p.	•			, , , , , , ,	vos (V) or no (N)	
q.	•			control. (NA7.6.1.2.1(e)2) Enter	•	
r.	receiving this credit. (NA7.6	5.1.2.1(e)3, §140.6(a)2	<mark>2H</mark>) Enter yes (\	ystem automatically turns off th f), no (N), or not applicable (N/ /	A).	
Step	4: Partial daylight test. Simula	ate or provide dayligh	nt conditions w	here illuminance (fc) from daylig	ght only at the reference lo	ocation is
betw	between 60 and 95% of the reference illuminance measured in Step 2. (NA7.6.1.2.1(f))					
S.				rtial daylight: light logging (Log)	, partially cover	
	fenestration (PCF), open loc					
t.		· ·		in footcandles (fc) measured at		
u.	Calculate the ratio of daylig	ht illuminance to the	reference illum	ninance in $\%$. ([line t / line c] x 10	00)	

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uilding:	Floor:	Room:	Control:	
v. The ratio of daylight illuminance to the reference illuminance (line u) is between 60 and 95%. (NA7.6.1.2.1(f)) Enter yes (Y) or no (N).				
w. Enter the total i reference locati	, , ,	and electric light illuminance) in foot	tcandles (fc) measured at the	
The total illuminance (line w) is greater than or equal to the reference illuminance (line c). (NA7.6.1.2.1(f)1, §130.1(d)3B) Enter yes (Y) or no (N).				
y. Calculate the ra	io of total illuminance to the re	eference illuminance in %. ([line w / l	ine c] x 100)	
z. The ratio of total yes (Y) or no (N		lluminance (line y) is less than or equ	ual to 150%. (<u>NA7.6.1.2.1(f)2</u>) Enter	
aa. The light output	is stable with no discernable fl	icker. (<u>NA7.6.1.2.1(f)3</u>) Enter yes (Y)	or no (N).	
unctional Testing Cor	npliance: O Complies	Does Not Comply	*3	



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Project Address:	City:	Zip Code:	

B-2. Stepped Switching or Stepped Dimming Control Systems Functional Testing (NA7.6.1.2.2)				
Building:	Floor:	Room:	Control:	
	Control is representative of sample. (NA7.6.1.2) If sampling meth	nod is used, attach a page listing ur	ntested controls in san	nple.
	Identify the reference location (the minimum daylighting location			
	ance levels should be measured at the farthest edge of the secon			
a.	Specify the control type: stepped dimming (SD) or stepped switc	ching (SW).		
	Specify the power estimation method to be used: counting (C) –	only for stepped switching, cut she	eet (CS) – ballast cut	
b.	sheet with steps of power and light must be attached, measured	I Amps multiplied by Volts (VA), or	measured watts	
	(W).			
Step 2	No daylight test. Simulate or provide conditions without daylight			
	Indicate the method used to simulate or provide conditions with		Agent Total Agent	
c.	(Night), night time illuminance logging (Log) – attach plot of illum	ninance or power, cover fenestrati	on (CF), or cover	
	photosensor (CP).		To in the colorators	
d.	Enter the reference illuminance value in footcandles (fc), as mea	- 7	is is the electric	
	lighting illuminance level without any daylight. (NA7.6.1.2.2(b)4) Enter the measured Amps multiplied by Volts in Volt-Amps (VA)		n) = V/A <i>OR</i> Enter	
e.	the measured watts (W) if power estimation method (line b) = W			
	estimation method (line b) = C or CS.	-C		
	Automatic daylight control system turns on all stages of controlle	ed lights unless it is documented th	nat multi-level	
f.	luminaires have been tuned to less than full output and the design	gn illuminance levels are provided.	(<u>NA7.6.1.2.2(b)2</u>)	
	Enter yes (Y) or no (N).	01.		
g.	The stepped dimming control system provides reduced flicker ov			
	(NA7.6.1.2.2(b)3) Enter yes (Y) or no (N). OR Indicate not applica			
Step 3: Full daylight test. Simulate or provide bright conditions where the daylight illuminance is greater than 150% of the reference illuminance measured in Step 2. (NA7.6.1.2.2(c), §130.1(d)3C, §130.1(d)3D)				
	Enter the daylight illuminance (light level with the electric lightin		(fc) measured at	
h.	the reference location.		(10)	
i.	Calculate the ratio of daylight illuminance to the reference illuminance	inance in %. ([line h / line d] x 100)		
i	The ratio of daylight illuminance to the reference illuminance (lin	ne i) is greater than 150%. (<u>§130.1</u> ((d)3C, §130.1(d)3D)	
j.	Enter yes (Y) or no (N).	<i>y</i> .		
k.	Enter the measured system power in Volt-Amps (VA) or watts (V		e b) = VA or W. <i>OR</i>	
	Indicate not applicable (N/A) if power estimation method (line b		B Indicate not	
I.	Enter the fraction of system wattage turned off in % if the power applicable (N/A) if the power estimation method (line b) = CS, V/		k indicate not	
	Enter the power reduction of dimmed lamps calculated from the		ower estimation	
m.	method (line b) = CS. OR Indicate not applicable (N/A) if the pow	·		
	Calculate the system power reduction in %.		·	
	If power estimation method (line b) = C, system power reduction	, ,	` '	
n.	If power estimation method (line b) = CS, system power reduction	•	• •	
	If power estimation method (line b) = VA or W, system power re	duction = [1 - measured system po	wer at dimmed	
	stage (line k)/full load system power (line e)].	and the state of the state of the difference of	: /I:	
	For areas other than parking garages, the system lighting power			
0.	65%. (NA7.6.1.2.2(c)1, §130.1(d)3C) OR For parking garages, the (§130.1(d)3D) Enter yes (Y) or no (N).	controlled lighting power consum	ption is zero.	
p.	Only the luminaires in the daylit zones are affected by daylight or	ontrol (NA7.6.1.2.2(c)2) Enter yes	(V) or no (N)	
ρ.	If a PAF is claimed for daylight dimming plus OFF controls, the sy			
q.	receiving this credit. (§140.6(a)2H) Enter yes (Y), no (N), or not a	•	anninancs that are	
Step 4	Partial daylight test. For each control stage tested in this step, th		nts than the staged tes	sted are left
	those stages of control with higher setpoints are dimmed or cont			
turns o	on and off or dims. (<u>NA7.6.1.2.2(d)</u>)			
r.	Indicate method used to simulate or provide conditions with par	tial daylight: light logging (Log), pa	rtially cover	
	fenestration (PCF), open loop setpoint adjustment (OLSA).			

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B-2. Stepped Switching or Stepped Dimming Control Systems Functional Testing (NA7.6.1.2.2)						
Building:		Floor:	Room:	Control:		
S.	Enter the number of control steps. If the control has 3 steps of control or less, all steps of control must be tested. If the control has more than 3 steps, testing 3 steps of control is sufficient for showing compliance. (NA7.6.1.2.2)					
First st	stage of control (partial daylight test)					
t.	Enter the total illuminance (combined daylight and electric light illuminance) in footcandles (fc) measured at the reference location just after the first stage of control dims or shuts off a stage of lighting. (NA7.6.1.2.2(d)1)					
u.	The total illuminance (line t) is greater than or equal to the reference illuminance (line d). (NA7.6.1.2.2(d)1A, §130.1(d)3B) Enter yes (Y) or no (N).					
٧.	Calculate the ratio of total illuminance to the reference illuminance in %. ([line t / line d] x 100)					
w.	The ratio of total illuminance to the reference illuminance (line v) is less than or equal to 150%. (NA7.6.1.2.2(d)1B) Enter yes (Y) or no (N).					
X.	The control stage does not cycle on and off between dim and undimmed while daylight illuminance remains constant. (NA7.6.1.2.2(d)2) Enter yes (Y) or no (N).					
у.	Only the luminaires in the daylit zones are affected by daylight control. (NA7.6.1.2.2(d)3) Enter yes (Y) or no (N).					
Second stage of control (partial daylight test)						
Z.	Enter the total illuminance (combined daylight and electric light illuminance) in footcandles (fc) measured at the reference location just after the second stage of control dims or shuts off a stage of lighting. (NA7.6.1.2.2(d)1)					
aa.	The total illuminance (line z) is greater than or equal to the reference illuminance (line d). (NA7.6.1.2.2(d)1A, §130.1(d)3B) Enter yes (Y) or no (N).					
bb.	Calculate the ratio of total illuminance to the reference illuminance in %. ([line z / line d] x 100)					
cc.	The ratio of total illuminance to the reference illuminance (line bb) is less than or equal to 150%. (NA7.6.1.2.2(d)1B) Enter yes (Y) or no (N).					
dd.	The control stage does not cycle on and off between dim and undimmed while daylight illuminance remains constant. (NA7.6.1.2.2(d)2) Enter yes (Y) or no (N).					
ee.	Only the luminaires in the daylit zones are affected by daylight control. (NA7.6.1.2.2(d)3) Enter yes (Y) or no (N).					
Third stage of control (partial daylight test)						
	There are only 2 control stages. (Indicate not applicable (N/A) for lines ff through kk.)					
ff.	Enter the total illuminance (combined daylight and electric light illuminance) in footcandles (fc) measured at the reference location just after the third stage of control dims or shuts off a stage of lighting. (NA7.6.1.2.2(d)1)					
gg.	The total illuminance (line ff) is greater than or equal to the reference illuminance (line d). (NA7.6.1.2.2(d)1A, §130.1(d)3B) Enter yes (Y) or no (N).					
hh.	Calculate the ratio of total illuminance to the reference illuminance in %. ([line ff / line d] x 100)					
ii.	The ratio of total illuminance to the reference illuminance (line hh) is less than or equal to 150%. (NA7.6.1.2.2(d)1B) Enter yes (Y) or no (N).					
jj.	The control stage does not cycle on and off between dim and undimmed while daylight illuminance remains constant. (NA7.6.1.2.2(d)2) Enter yes (Y) or no (N).					
kk.	Only the luminaires in the daylit zones are affected by daylight control. (NA7.6.1.2.2(d)3) Enter yes (Y) or no (N).					
Step 5: Verify time delay. (NA7.6.1.2.2(e))						
II.	The time delay automatically resets to normal mode within 60 minutes. (NA7.6.1.2.2(e)1, §110.9(b)2A) Enter yes (Y) or no (N).					
mm.	Set the normal mode time delay to at least 3 minutes. (NA7.6.1.2.2(e)2)					
nn.	There is at least a 3-minute time delay between when illuminance exceeds the setpoint for a given dimming stage and when the control dims or switches off the controlled lights. (NA7.6.1.2.2(e)3) Enter yes (Y) or no (N).					
Functi	Functional Testing Compliance: O Complies O Does Not Comply					

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT						
I certify that this Certificate of Acceptance documentation is accurate and complete.						
Documentation Author Name:		Documentation Author Signature:				
Documentation Author Company Name:		Date Signed:				
Address:		CEA/ATT Certification Identification (If applicable):				
City/State/Zip:		Phone:				
FIELD TECHNICIAN'S DECLARATION STATEMENT	FIELD TECHNICIAN'S DECLARATION STATEMENT					
 I certify the following under penalty of perjury, under the laws of the State of California: The information provided on this Certificate of Acceptance is true and correct. I am the person who performed the acceptance verification reported on this Certificate of Acceptance (Field Technician). The construction or installation identified on this Certificate of Acceptance complies with the applicable acceptance requirements indicated in the plans and specifications approved by the enforcement agency, and conforms to the applicable acceptance requirements and procedures specified in Reference Nonresidential Appendix NA7. I have confirmed that the Certificate(s) of Installation for the construction or installation identified on this Certificate of Acceptance has been completed and signed by the responsible builder/installer and has been posted or made available with the building permit(s) issued for the building. 						
Field Technician Company Name:		Position with Company (Title):				
		01, 110.				
Address:	200	ATT Certification Identification (if applicable):				
City/State/Zip:	CO.	Phone:	Date Signed:			
RESPONSIBLE PERSON'S DECLARATION STATEMENT						
 I certify the following under penalty of perjury, under the laws of the State of California: I am the Field Technician, or the Field Technician is acting on my behalf as my employee or my agent and I have reviewed the information provided on this Certificate of Acceptance. I am eligible under Division 3 of the Business and Professions Code in the applicable classification to accept responsibility for the system design, construction or installation of features, materials, components, or manufactured devices for the scope of work identified on this Certificate of Acceptance and attest to the declarations in this statement (responsible acceptance person). The information provided on this Certificate of Acceptance substantiates that the construction or installation identified on this Certificate of Acceptance complies with the acceptance requirements indicated in the plans and specifications approved by the enforcement agency, and conforms to the applicable acceptance requirements and procedures specified in Reference Nonresidential Appendix NA7. I have confirmed that the Certificate(s) of Installation for the construction or installation identified on this Certificate of Acceptance has been completed and is posted or made available with the building permit(s) issued for the building. I will ensure that a completed, signed copy of this Certificate of Acceptance shall be posted, or made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a signed copy of this Certificate of Acceptance is required to be included with the documentation the builder provides to the building owner at occupancy. Responsible Person Name: Responsible Person Company Name: Position with Company (Title):						
Address:	CSLB License:					
City/State/Zip:		Phone:	Date Signed:			